

Applicant's or agent's file reference OPP030742KR	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/KR03/01212</b>	International filing date (day/month/year) 19 JUNE 2003 (19.06.2003)	(Earliest) Priority Date (day/month/year) 20 JUNE 2002 (20.06.2002)
Applicant POSCO et al		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawing to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR03/01212

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC7 C08G 64/20, C08G 64/02, C08G 64/32, B01J 31/04

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC7 C08G 64/20, C08G 64/02, C08G 64/32, B01J 31/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Korean Patents and applications for inventions since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CA -on CD, PAJ, KIPASS

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,783,445 A (ARCO CHEM CO.) 08 November 1988 see the whole documents	1 - 6, 8
Y	US 4, 981, 948 A (Mitsui Petrochemical Industries, Ltd) 01 January 1991 see the whole documents	1 - 6, 8
A	WO 99/11694 A1( BUNA SOW LEUNA OLEFINVERBUND GMBH) 11 March 1999 see the whole documents	1 - 8
A	US 4,960,862 A ( Air Products and Chemicals, Inc.) 02 October 1990 see the whole documents	1 - 8
A	JP 2000-17067 A (MITSUBISHI GAS CHEM CO INC) 18 January 2000 see the whole documents	1 - 8

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

15 OCTOBER 2003 (15.10.2003)

Date of mailing of the international search report

15 OCTOBER 2003 (15.10.2003)

Name and mailing address of the ISA/KR

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**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.

PCT/KR03/01212

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4,783,445 A	08.11.1988	None	
US 4,981,948 A	01.01.1991	EP 0358326 A1 EP 0358326 B1 JP 2047134 A2 JP 2732475 B2	14.03.1990 27.12.1996 16.02.1990 30.03.1998
WO 99/11694 A1	11.03.1999	EP 1012202 A1 DE 19737547 A1	28.06.2000 04.03.1999
US 4,960,862 A	02.10.1990	EP0393390 A1 JP2292328 A	24.10.1990 03.12.1990
JP 2000-17067 A	18.01.2000	None	